



1

SEQUENCE LISTING

<110> KRUPP, GUIDO

<120> DETECTION OF NUCLEIC ACID AMPLIFIED PRODUCTS

<130> 19006.007

<140> 09/937,519

<141> 2002-03-05

<150> PCT/EP99/07127

<151> 1999-09-27

<150> DE 199 15 141.5

<151> 1999-03-26

<160> 223

<170> PatentIn Ver. 3.3

<210> 1

<211> 4

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 1

gaaa

4

<210> 2

<211> 7

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>

<221> modified_base

<222> (5)

<223> a, c, g, u, unknown, or other

<400> 2

cuganga

7

<210> 3

<211> 14

<212> DNA

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 3
tccgagccgg wcgr 14

<210> 4
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 4
rggctagcha caacga 16

<210> 5
<211> 13
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 5
ggaaucgaaa cgc 13

<210> 6
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (24)
<223> Pyridin-4-one

<400> 6
gcgtctagcg gaaacgctac tgangagatt cc 32

<210> 7
<211> 22
<212> RNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 7

gcagcuaugg aaayguuaaa ag

22

<210> 8

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Combined DNA/RNA Molecule:
Synthetic oligonucleotide

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>

<221> modified_base

<222> (29)

<223> Pyridin-4-one

<400> 8

ttttaacruc tagcggaaac gctactgang acatagctgc

40

<210> 9

<211> 54

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 9

aattctaata cgactcacta taggggtgcta tgtcacttcc ccttggttct ctca

54

<210> 10

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 10

gaatctcatc agtagcgagt ggggggacat caagcagcca tgcaaa

46

<210> 11
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Combined DNA/RNA Molecule:
 Synthetic oligonucleotide

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 11
 tgaaucgaaa cgcgaaagcg ucuagcgu

28

<210> 12
 <211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 12
 gaatctcatc agtagcgagt ggggggacat caagcagcca tgcaaa

46

<210> 13
 <211> 15
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Combined DNA/RNA Molecule:
 Synthetic oligonucleotide

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 13
 tacguaguucc gugcu

15

<210> 14
 <211> 13
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 14
 gcgtttcgat tcc

13

<210> 15
 <211> 142
 <212> DNA
 <213> Human immunodeficiency virus type 1

<400> 15
 agtgggggga catcaagcag ctatgcaaay gttaaaagat actatcaatg aggaagctgc 60
 agaatgggac aggttacatc cagtacatgc agggcctatt ccaccaggcc agatgagaga 120
 accaagggga agtgacatag ca 142

<210> 16
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 16
 agcagctatg gaaaygttaa aaga 24

<210> 17
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 17
 aattctaata cgactcacta tagggagtgg ggggacatca agcagctatg gaaa 54

<210> 18
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Combined DNA/RNA Molecule:
 Synthetic oligonucleotide

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 18
 gggagtgggg ggacatcaag cagctatgga aayguaaaa ga 42

<210> 19
 <211> 24
 <212> DNA
 <213> Escherichia coli

 <400> 19
 taatgtctgg gaaactgcct gatg 24

 <210> 20
 <211> 24
 <212> DNA
 <213> Escherichia coli

 <400> 20
 ataactactg gaaacggtag ctaa 24

 <210> 21
 <211> 24
 <212> DNA
 <213> Escherichia coli

 <400> 21
 agtcagatgt gaaatccccg ggct 24

 <210> 22
 <211> 24
 <212> DNA
 <213> Escherichia coli

 <400> 22
 gtgtagcggg gaaatgcgta gaga 24

 <210> 23
 <211> 24
 <212> DNA
 <213> Escherichia coli

 <400> 23
 gctcaggtgc gaaagcgtgg ggag 24

 <210> 24
 <211> 24
 <212> DNA
 <213> Escherichia coli

 <400> 24
 ctcggtgtgt gaaatggttg gtta 24

 <210> 25
 <211> 24
 <212> DNA
 <213> Salmonella typhimurium

<400> 25	
taatgtctgg gaaactgcct gatg	24
<210> 26	
<211> 24	
<212> DNA	
<213> Salmonella typhimurium	
<400> 26	
ataactactg gaaacggtgg ctaa	24
<210> 27	
<211> 24	
<212> DNA	
<213> Salmonella typhimurium	
<400> 27	
agtcggatgt gaaatccccg ggct	24
<210> 28	
<211> 24	
<212> DNA	
<213> Salmonella typhimurium	
<400> 28	
aactgcattc gaaactggca ggct	24
<210> 29	
<211> 24	
<212> DNA	
<213> Salmonella typhimurium	
<400> 29	
gtgtagcggg gaaatgcgta gaga	24
<210> 30	
<211> 24	
<212> DNA	
<213> Salmonella typhimurium	
<400> 30	
gctcaggtgc gaaagcgtgg ggag	24
<210> 31	
<211> 24	
<212> DNA	
<213> Salmonella typhimurium	
<400> 31	
ctcgtgttgt gaaatgtcgg gtta	24

<210> 32
 <211> 24
 <212> DNA
 <213> Staphylococcus aureus

<400> 32
 ataacttcgg gaaaccggag ctaa 24

<210> 33
 <211> 24
 <212> DNA
 <213> Staphylococcus aureus

<400> 33
 gttcaaaagt gaaagacggt cttg 24

<210> 34
 <211> 24
 <212> DNA
 <213> Staphylococcus aureus

<400> 34
 cgcaatgggc gaaagcctga cgga 24

<210> 35
 <211> 24
 <212> DNA
 <213> Staphylococcus aureus

<400> 35
 tacctaataca gaaagccacg gcta 24

<210> 36
 <211> 24
 <212> DNA
 <213> Staphylococcus aureus

<400> 36
 agtctgatgt gaaagccac ggct 24

<210> 37
 <211> 24
 <212> DNA
 <213> Staphylococcus aureus

<400> 37
 aggggtcattg gaaactggaa aact 24

<210> 38
 <211> 24
 <212> DNA
 <213> Staphylococcus aureus

<400> 38
 ttggaaactg gaaaacttga gtgc 24

<210> 39
 <211> 24
 <212> DNA
 <213> Staphylococcus aureus

<400> 39
 tgcagaagag gaaagtggaa ttcc 24

<210> 40
 <211> 24
 <212> DNA
 <213> Staphylococcus aureus

<400> 40
 gtgtagcggg gaaatgcgca gaga 24

<210> 41
 <211> 24
 <212> DNA
 <213> Staphylococcus aureus

<400> 41
 gctgatgtgc gaaagcgtgg ggat 24

<210> 42
 <211> 24
 <212> DNA
 <213> Staphylococcus aureus

<400> 42
 ccgcaagggt gaaactcaaa ggaa 24

<210> 43
 <211> 24
 <212> DNA
 <213> Staphylococcus aureus

<400> 43
 aaagggcagc gaaaccgcga ggtc 24

<210> 44
 <211> 24
 <212> DNA
 <213> Clostridium perfringens

<400> 44
tttccttcgg gaaacggatt agcg 24

<210> 45
<211> 24
<212> DNA
<213> Clostridium perfringens

<400> 45
atagccttcc gaaaggaaga ttaa 24

<210> 46
<211> 24
<212> DNA
<213> Clostridium perfringens

<400> 46
tcataatggt gaaagatggc atca 24

<210> 47
<211> 24
<212> DNA
<213> Clostridium perfringens

<400> 47
agggtcattg gaaactggaa aact 24

<210> 48
<211> 24
<212> DNA
<213> Clostridium perfringens

<400> 48
agtgggatgt gaaatacccg ggct 24

<210> 49
<211> 24
<212> DNA
<213> Clostridium perfringens

<400> 49
gtgtagcggg gaaatgcgta gaga 24

<210> 50
<211> 24
<212> DNA
<213> Clostridium perfringens

<400> 50
gctgaggctc gaaagcgtgg ggag 24

<210> 51
<211> 24
<212> DNA
<213> Clostridium perfringens

<400> 51
cttaatcgag gaaatccttc gggg 24

<210> 52
<211> 24
<212> DNA
<213> Clostridium perfringens

<400> 52
attgtaggct gaaactcgcc taca 24

<210> 53
<211> 24
<212> DNA
<213> Vibrio parahaemolyticus

<400> 53
aagtcgagcg gaaacgagtt atct 24

<210> 54
<211> 24
<212> DNA
<213> Vibrio parahaemolyticus

<400> 54
taatgcctag gaaattgccc tgat 24

<210> 55
<211> 24
<212> DNA
<213> Vibrio parahaemolyticus

<400> 55
ataaccattg gaaacgatgg ctaa 24

<210> 56
<211> 24
<212> DNA
<213> Vibrio parahaemolyticus

<400> 56
agtcagatgt gaaagccccg ggct 24

<210> 57
 <211> 24
 <212> DNA
 <213> *Vibrio parahaemolyticus*

<220>
 <221> modified_base
 <222> (1)
 <223> a, c, g, t, unknown, or other

<400> 57
 nattgcattt gaaactggca gact 24

<210> 58
 <211> 24
 <212> DNA
 <213> *Vibrio parahaemolyticus*

<400> 58
 gtgtagcggg gaaatgcgta gaga 24

<210> 59
 <211> 24
 <212> DNA
 <213> *Vibrio parahaemolyticus*

<400> 59
 ctcgtgttgt gaaatgttgg gtta 24

<210> 60
 <211> 24
 <212> DNA
 <213> *Vibrio parahaemolyticus*

<400> 60
 gccaaacttgc gaaagtgagc gaat 24

<210> 61
 <211> 24
 <212> DNA
 <213> *Bacillus cereus*

<400> 61
 ataactccgg gaaaccgggg ctaa 24

<210> 62
 <211> 24
 <212> DNA
 <213> *Bacillus cereus*

<400> 62
 cgcattgttc gaaattgaaa ggcg 24

<210> 63
<211> 24
<212> DNA
<213> *Bacillus cereus*

<400> 63
cgcaatggac gaaagtctga cgga 24

<210> 64
<211> 24
<212> DNA
<213> *Bacillus cereus*

<400> 64
tacctaacca gaaagccacg gcta 24

<210> 65
<211> 24
<212> DNA
<213> *Bacillus cereus*

<400> 65
agtctgatgt gaaagcccac ggct 24

<210> 66
<211> 24
<212> DNA
<213> *Bacillus cereus*

<400> 66
agggtcattg gaaactggga gact 24

<210> 67
<211> 24
<212> DNA
<213> *Bacillus cereus*

<400> 67
tgcagaagag gaaagtggaa ttcc 24

<210> 68
<211> 24
<212> DNA
<213> *Bacillus cereus*

<400> 68
gtgtagcggg gaaatgcgta gaga 24

<210> 69
 <211> 24
 <212> DNA
 <213> *Bacillus cereus*

<400> 69
 actgaggcgc gaaagcgtgg ggag 24

<210> 70
 <211> 24
 <212> DNA
 <213> *Bacillus cereus*

<400> 70
 ccgcaaggct gaaactcaaa ggaa 24

<210> 71
 <211> 24
 <212> DNA
 <213> *Clostridium botulinum*

<400> 71
 atagccttcc gaaaggaaga ttaa 24

<210> 72
 <211> 24
 <212> DNA
 <213> *Clostridium botulinum*

<400> 72
 cgcaatgggg gaaaccctga cgga 24

<210> 73
 <211> 24
 <212> DNA
 <213> *Clostridium botulinum*

<400> 73
 agtgggatgt gaaatccccg ggct 24

<210> 74
 <211> 24
 <212> DNA
 <213> *Clostridium botulinum*

<400> 74
 tgcaggagag gaaagcgga ttcc 24

<210> 75
 <211> 24
 <212> DNA
 <213> *Clostridium botulinum*

<400> 75	
gtgtagcggg gaaatgcgta gaga	24
<210> 76	
<211> 24	
<212> DNA	
<213> Clostridium botulinum	
<400> 76	
gctgaggcac gaaagcgtgg gtag	24
<210> 77	
<211> 24	
<212> DNA	
<213> Campylobacter jejuni	
<400> 77	
acaacagttg gaaacgactg ctaa	24
<210> 78	
<211> 24	
<212> DNA	
<213> Campylobacter jejuni	
<400> 78	
gttgagtagg gaaagtgttt cggt	24
<210> 79	
<211> 24	
<212> DNA	
<213> Campylobacter jejuni	
<400> 79	
cgcaatgggg gaaaccctga cgca	24
<210> 80	
<211> 24	
<212> DNA	
<213> Campylobacter jejuni	
<400> 80	
agtctcttgt gaaatctaata ggct	24
<210> 81	
<211> 24	
<212> DNA	
<213> Campylobacter jejuni	
<400> 81	
aactgcttgg gaaactgata gtct	24

<210> 82
 <211> 24
 <212> DNA
 <213> *Campylobacter jejuni*

 <400> 82
 gctaaggcgc gaaagcgtgg ggag 24

<210> 83
 <211> 24
 <212> DNA
 <213> *Yersinia enterocolitica*

 <400> 83
 taatgtctgg gaaactgcct gatg 24

<210> 84
 <211> 24
 <212> DNA
 <213> *Yersinia enterocolitica*

 <400> 84
 ataactactg gaaacggtag ctaa 24

<210> 85
 <211> 25
 <212> DNA
 <213> *Yersinia enterocolitica*

 <400> 85
 cagtcagatg tgaaatcccc gcgct 25

<210> 86
 <211> 24
 <212> DNA
 <213> *Yersinia enterocolitica*

 <400> 86
 aactgcattt gaaactggca agct 24

<210> 87
 <211> 24
 <212> DNA
 <213> *Yersinia enterocolitica*

 <400> 87
 gtgtagcggg gaaatgcgta gaga 24

<210> 88
 <211> 24
 <212> DNA
 <213> *Yersinia enterocolitica*

<400> 88
 gctcaggtgc gaaagcgtgg ggag 24

<210> 89
 <211> 24
 <212> DNA
 <213> *Yersinia enterocolitica*

<400> 89
 ctcgtgttgt gaaatgttgg gtta 24

<210> 90
 <211> 24
 <212> DNA
 <213> *Listeria monocytogenes*

<400> 90
 ataactccgg gaaaccgggg ctaa 24

<210> 91
 <211> 24
 <212> DNA
 <213> *Listeria monocytogenes*

<400> 91
 ccacgctttt gaaagatggt ttcg 24

<210> 92
 <211> 24
 <212> DNA
 <213> *Listeria monocytogenes*

<400> 92
 cgcaatggac gaaagtctga cgga 24

<210> 93
 <211> 24
 <212> DNA
 <213> *Listeria monocytogenes*

<400> 93
 tatctaacca gaaagccacg gcta 24

<210> 94
 <211> 24
 <212> DNA
 <213> *Listeria monocytogenes*

<400> 94	
agtctgatgt gaaagccccc ggct	24
<210> 95	
<211> 24	
<212> DNA	
<213> <i>Listeria monocytogenes</i>	
<400> 95	
agggtcattg gaaactggaa gact	24
<210> 96	
<211> 24	
<212> DNA	
<213> <i>Listeria monocytogenes</i>	
<400> 96	
gtgtagcggg gaaatgcgta gata	24
<210> 97	
<211> 24	
<212> DNA	
<213> <i>Listeria monocytogenes</i>	
<400> 97	
gctgaggcgc gaaagcgtgg ggag	24
<210> 98	
<211> 24	
<212> DNA	
<213> <i>Listeria monocytogenes</i>	
<400> 98	
ccgcaagggt gaaactcaaa ggaa	24
<210> 99	
<211> 24	
<212> DNA	
<213> <i>Staphylococcus epidermidis</i>	
<400> 99	
ataacttcgg gaaaccggag ctaa	24
<210> 100	
<211> 24	
<212> DNA	
<213> <i>Staphylococcus epidermidis</i>	
<400> 100	
gttcaatagt gaaagacggg ttg	24

<210> 101
 <211> 24
 <212> DNA
 <213> Staphylococcus epidermidis

<400> 101
 cgcaatgggc gaaagcctga cgga 24

<210> 102
 <211> 24
 <212> DNA
 <213> Staphylococcus epidermidis

<400> 102
 tacctaataca gaaagccacg gcta 24

<210> 103
 <211> 24
 <212> DNA
 <213> Staphylococcus epidermidis

<400> 103
 agtctgatgt gaaagcccac ggct 24

<210> 104
 <211> 24
 <212> DNA
 <213> Staphylococcus epidermidis

<400> 104
 aggggtcattg gaaactggaa aact 24

<210> 105
 <211> 24
 <212> DNA
 <213> Staphylococcus epidermidis

<400> 105
 ttggaaactg gaaaacttga gtgc 24

<210> 106
 <211> 24
 <212> DNA
 <213> Staphylococcus epidermidis

<400> 106
 tgcagaagag gaaagtggaa ttcc 24

<210> 107
 <211> 24
 <212> DNA
 <213> Staphylococcus epidermidis

<400> 107
 gtgtagcggg gaaatgcgca gaga 24

<210> 108
 <211> 24
 <212> DNA
 <213> Staphylococcus epidermidis

<400> 108
 gctgatgtgc gaaagcgtgg ggat 24

<210> 109
 <211> 24
 <212> DNA
 <213> Staphylococcus epidermidis

<400> 109
 ccgcaagggt gaaactcaaa ggaa 24

<210> 110
 <211> 24
 <212> DNA
 <213> Staphylococcus epidermidis

<400> 110
 aaagggtagc gaaaccgga ggac 24

<210> 111
 <211> 24
 <212> DNA
 <213> Streptococcus pneumoniae

<400> 111
 ataactattg gaaacgatag ctaa 24

<210> 112
 <211> 24
 <212> DNA
 <213> Streptococcus pneumoniae

<400> 112
 tgtgagagt gaaagttcac actg 24

<210> 113
 <211> 24
 <212> DNA
 <213> Streptococcus pneumoniae

<400> 113 tatcttacca gaaagggacg gcta	24
<210> 114 <211> 24 <212> DNA <213> Streptococcus pneumoniae	
<400> 114 gtaggctttg gaaactgttt aact	24
<210> 115 <211> 24 <212> DNA <213> Streptococcus pneumoniae	
<400> 115 gtgtagcggg gaaatgcgta gata	24
<210> 116 <211> 24 <212> DNA <213> Streptococcus pneumoniae	
<400> 116 caccggtggc gaaagcggct ctct	24
<210> 117 <211> 24 <212> DNA <213> Streptococcus pneumoniae	
<400> 117 gctgaggctc gaaagcgtgg ggag	24
<210> 118 <211> 24 <212> DNA <213> Streptococcus pneumoniae	
<400> 118 ccgcaagggtt gaaactcaaa ggaa	24
<210> 119 <211> 24 <212> DNA <213> Streptococcus pyogenes	
<400> 119 ataactattg gaaacgatag ctaa	24

<210> 120
 <211> 24
 <212> DNA
 <213> Streptococcus pyogenes

<400> 120
 ggtgggagtg gaaaatccac caag 24

<210> 121
 <211> 24
 <212> DNA
 <213> Streptococcus pyogenes

<400> 121
 taactaacca gaaagggacg gcta 24

<210> 122
 <211> 24
 <212> DNA
 <213> Streptococcus pyogenes

<400> 122
 gtacgctttg gaaactggag aact 24

<210> 123
 <211> 24
 <212> DNA
 <213> Streptococcus pyogenes

<400> 123
 gtgtagcggg gaaatgcgta gata 24

<210> 124
 <211> 24
 <212> DNA
 <213> Streptococcus pyogenes

<400> 124
 caccggtggc gaaagcggct ctct 24

<210> 125
 <211> 24
 <212> DNA
 <213> Streptococcus pyogenes

<400> 125
 gctgaggctc gaaagcgtgg ggag 24

<210> 126
 <211> 24
 <212> DNA
 <213> Streptococcus pyogenes

<400> 126
 ccgcaaggtt gaaactcaaa ggaa 24

<210> 127
 <211> 24
 <212> DNA
 <213> Enterococcus faecalis

<400> 127
 cactcaattg gaaagaggag tggc 24

<210> 128
 <211> 24
 <212> DNA
 <213> Enterococcus faecalis

<400> 128
 ataacacttg gaaacaggtg ctaa 24

<210> 129
 <211> 24
 <212> DNA
 <213> Enterococcus faecalis

<400> 129
 gcataagagt gaaaggcgct ttcg 24

<210> 130
 <211> 24
 <212> DNA
 <213> Enterococcus faecalis

<400> 130
 ggcaatggac gaaagtctga ccga 24

<210> 131
 <211> 24
 <212> DNA
 <213> Enterococcus faecalis

<400> 131
 tatctaacca gaaagccacg gcta 24

<210> 132
 <211> 24
 <212> DNA
 <213> Enterococcus faecalis

<400> 132 agtctgatgt gaaagccccc ggct	24
<210> 133 <211> 24 <212> DNA <213> Enterococcus faecalis	
<400> 133 agggtcattg gaaactggga gact	24
<210> 134 <211> 24 <212> DNA <213> Enterococcus faecalis	
<400> 134 gtgtagcggg gaaatgcgta gata	24
<210> 135 <211> 24 <212> DNA <213> Enterococcus faecalis	
<400> 135 gctgaggctc gaaagcgtgg ggag	24
<210> 136 <211> 24 <212> DNA <213> Enterococcus faecalis	
<400> 136 ccgcaagggtt gaaactcaaa ggaa	24
<210> 137 <211> 24 <212> DNA <213> Neisseria meningitidis	
<400> 137 ataactgatc gaaagatcag ctaa	24
<210> 138 <211> 24 <212> DNA <213> Neisseria meningitidis	
<400> 138 tcttgagaga gaaagcaggg gacc	24

<210> 139
 <211> 24
 <212> DNA
 <213> *Neisseria meningitidis*

<400> 139
 tgtcaggga gaaaaggctg ttgc 24

<210> 140
 <211> 24
 <212> DNA
 <213> *Neisseria meningitidis*

<400> 140
 agcaggatgt gaaatccccg ggct 24

<210> 141
 <211> 24
 <212> DNA
 <213> *Neisseria meningitidis*

<400> 141
 gtgtagcagt gaaatgcgta gaga 24

<210> 142
 <211> 24
 <212> DNA
 <213> *Neisseria meningitidis*

<400> 142
 gttcatgccc gaaagcgtgg gtag 24

<210> 143
 <211> 24
 <212> DNA
 <213> *Neisseria meningitidis*

<400> 143
 gctaacgcgt gaaattgacc gcct 24

<210> 144
 <211> 24
 <212> DNA
 <213> *Enterobacter agglomerans*

<400> 144
 taatgtctgg gaaactgccg atgg 24

<210> 145
<211> 24
<212> DNA
<213> Enterobacter agglomerans

<400> 145
ataactactg gaaacggtag ctaa 24

<210> 146
<211> 24
<212> DNA
<213> Enterobacter agglomerans

<400> 146
aagtcgatgt gaaatccccg ggct 24

<210> 147
<211> 24
<212> DNA
<213> Enterobacter agglomerans

<400> 147
aactgcattg gaaactggca gctt 24

<210> 148
<211> 24
<212> DNA
<213> Enterobacter agglomerans

<400> 148
gtgtagcggg gaaatgcgta gaga 24

<210> 149
<211> 24
<212> DNA
<213> Enterobacter agglomerans

<400> 149
gctcagggtg gaaagcgtgg ggag 24

<210> 150
<211> 24
<212> DNA
<213> Enterobacter agglomerans

<400> 150
ctcgtgttgt gaaatgttgg gtta 24

<210> 151
<211> 24
<212> DNA
<213> Proteus vulgaris

<400> 151
ggtaacagga gaaagcttgc tttc 24

<210> 152
<211> 24
<212> DNA
<213> *Proteus vulgaris*

<400> 152
ataactactg gaaacggtgg ctaa 24

<210> 153
<211> 24
<212> DNA
<213> *Proteus vulgaris*

<400> 153
agtcagatgt gaaagccccg agct 24

<210> 154
<211> 24
<212> DNA
<213> *Proteus vulgaris*

<400> 154
aactgcatct gaaactggct ggct 24

<210> 155
<211> 24
<212> DNA
<213> *Proteus vulgaris*

<400> 155
gtgtagcggg gaaatgcgta gaga 24

<210> 156
<211> 24
<212> DNA
<213> *Proteus vulgaris*

<400> 156
gctcaggtgc gaaagcgtgg ggac 24

<210> 157
<211> 24
<212> DNA
<213> *Proteus vulgaris*

<400> 157
tcgttggtgt gaaatggttg gtta 24

<210> 158
 <211> 24
 <212> DNA
 <213> *Pseudomonas aeruginosa*

<400> 158
 ataacgtccg gaaacggccg ctaa 24

<210> 159
 <211> 24
 <212> DNA
 <213> *Pseudomonas aeruginosa*

<400> 159
 tcctgaggga gaaagtcggg gatc 24

<210> 160
 <211> 24
 <212> DNA
 <213> *Pseudomonas aeruginosa*

<400> 160
 agcttgatgt gaaatccccg ggct 24

<210> 161
 <211> 24
 <212> DNA
 <213> *Pseudomonas aeruginosa*

<400> 161
 gtgtagcggg gaaatgcgta gata 24

<210> 162
 <211> 24
 <212> DNA
 <213> *Pseudomonas aeruginosa*

<400> 162
 actgaggtgc gaaagcgtgg ggag 24

<210> 163
 <211> 24
 <212> DNA
 <213> *Pseudomonas fluorescens*

<400> 163
 ataacgttcg gaaacggacg ctaa 24

<210> 164
 <211> 24
 <212> DNA
 <213> *Pseudomonas fluorescens*

<400> 164
 tcctacggga gaaagcaggg gacc 24

<210> 165
 <211> 24
 <212> DNA
 <213> *Pseudomonas fluorescens*

<400> 165
 gacaatgggc gaaagcctga tcca 24

<210> 166
 <211> 24
 <212> DNA
 <213> *Pseudomonas fluorescens*

<400> 166
 agttggatgt gaaatccccg ggct 24

<210> 167
 <211> 24
 <212> DNA
 <213> *Pseudomonas fluorescens*

<400> 167
 gtgtagyggg gaaatgcggt gata 24

<210> 168
 <211> 24
 <212> DNA
 <213> *Pseudomonas fluorescens*

<400> 168
 actgaggtgc gaaagcgtgg ggag 24

<210> 169
 <211> 24
 <212> DNA
 <213> *Pseudomonas mendocina*

<400> 169
 ataacgttcc gaaaggaacg ctaa 24

<210> 170
 <211> 24
 <212> DNA
 <213> *Pseudomonas mendocina*

<220>
 <221> modified_base
 <222> (18)
 <223> a, c, g, t, unknown, or other

 <400> 170
 tcctacggga gaaagcangg gacc 24

<210> 171
 <211> 24
 <212> DNA
 <213> Pseudomonas mendocina

 <220>
 <221> modified_base
 <222> (19)
 <223> a, c, g, t, unknown, or other

 <400> 171
 gacaatgggc gaaagcctna tcca 24

<210> 172
 <211> 24
 <212> DNA
 <213> Pseudomonas mendocina

 <400> 172
 agttggatgt gaaagccccg ggct 24

<210> 173
 <211> 24
 <212> DNA
 <213> Pseudomonas mendocina

 <400> 173
 gtgtagcggc gaaatgcgta gata 24

<210> 174
 <211> 24
 <212> DNA
 <213> Pseudomonas mendocina

 <400> 174
 actgaggtgc gaaagcgtgg ggag 24

<210> 175
 <211> 24
 <212> DNA
 <213> Pseudomonas syringae

 <400> 175
 ataacgctcg gaaacggacg ctaa 24

<210> 176
 <211> 24
 <212> DNA
 <213> *Pseudomonas syringae*

<400> 176
 tcctacggga gaaagcaggg gacc 24

<210> 177
 <211> 24
 <212> DNA
 <213> *Pseudomonas syringae*

<400> 177
 gacaatgggc gaaagcctga tcca 24

<210> 178
 <211> 24
 <212> DNA
 <213> *Pseudomonas syringae*

<400> 178
 agttgaatgt gaaatccccg ggct 24

<210> 179
 <211> 24
 <212> DNA
 <213> *Pseudomonas syringae*

<400> 179
 gtgtagcggg gaaatgcgta gata 24

<210> 180
 <211> 24
 <212> DNA
 <213> *Pseudomonas syringae*

<400> 180
 actgaggtgc gaaagcgtgg ggag 24

<210> 181
 <211> 24
 <212> DNA
 <213> *Haemophilus influenzae*

<400> 181
 ggtagcagga gaaagcttgc ttcc 24

<210> 182
 <211> 24
 <212> DNA
 <213> Haemophilus influenzae

<400> 182
 ataactactg gaaacggtag ctaa 24

<210> 183
 <211> 24
 <212> DNA
 <213> Haemophilus influenzae

<400> 183
 taaagggggc gaaagctggt gccca 24

<210> 184
 <211> 24
 <212> DNA
 <213> Haemophilus influenzae

<400> 184
 cgcaatgggg gaaaccctga tgca 24

<210> 185
 <211> 24
 <212> DNA
 <213> Haemophilus influenzae

<400> 185
 agtgaggtgt gaaagccctg ggct 24

<210> 186
 <211> 24
 <212> DNA
 <213> Haemophilus influenzae

<400> 186
 gtgtagcggg gaaatgcgta gaga 24

<210> 187
 <211> 24
 <212> DNA
 <213> Haemophilus influenzae

<400> 187
 gctcatgtgt gaaagcgtgg ggag 24

<210> 188
 <211> 24
 <212> DNA
 <213> Haemophilus influenzae

<220>
 <221> modified_base
 <222> (24)
 <223> a, c, g, t, unknown, or other

 <400> 188
 ctcgtgttgt gaaatgttgg gttt 24

 <210> 189
 <211> 24
 <212> DNA
 <213> Haemophilus influenzae

 <400> 189
 gcgaatctca gaaagtgcac ctaa 24

 <210> 190
 <211> 24
 <212> DNA
 <213> Haemophilus ducreyi

 <400> 190
 ataactacgg gaaactgtag ctaa 24

 <210> 191
 <211> 24
 <212> DNA
 <213> Haemophilus ducreyi

 <400> 191
 cacaatgggg gaaaccctga tgca 24

 <210> 192
 <211> 24
 <212> DNA
 <213> Haemophilus ducreyi

 <400> 192
 agtgagatgt gaaagccccg ggct 24

 <210> 193
 <211> 24
 <212> DNA
 <213> Haemophilus ducreyi

 <400> 193
 gtgtagcggg gaaatgcgta gaga 24

<210> 194
 <211> 24
 <212> DNA
 <213> Haemophilus ducreyi

 <400> 194
 gctcatgtgc gaaagcgtgg ggag 24

<210> 195
 <211> 24
 <212> DNA
 <213> Haemophilus ducreyi

 <220>
 <221> modified_base
 <222> (24)
 <223> a, c, g, t, unknown, or other

 <400> 195
 ctcgtgttgt gaaatgttgg gttn 24

<210> 196
 <211> 24
 <212> DNA
 <213> Bacteroides acidofaciens

 <400> 196
 atagcctttc gaaagaaaga ttaa 24

<210> 197
 <211> 24
 <212> DNA
 <213> Bacteroides acidofaciens

 <400> 197
 agtcagttgt gaaagtttgc ggct 24

<210> 198
 <211> 24
 <212> DNA
 <213> Bacteroides acidofaciens

 <400> 198
 aattgcagtt gaaactggca gtct 24

<210> 199
 <211> 24
 <212> DNA
 <213> Bacteroides acidofaciens

 <400> 199
 gtgtagcggg gaaatgctta gata 24

<210> 200
 <211> 24
 <212> DNA
 <213> Bacteroides acidofaciens

<400> 200
 actgatgctc gaaagtgtgg gtat 24

<210> 201
 <211> 24
 <212> DNA
 <213> Bacteroides acidofaciens

<400> 201
 cggcaacggt gaaactcaaa ggaa 24

<210> 202
 <211> 24
 <212> DNA
 <213> Bacteroides acidofaciens

<400> 202
 gaataacgtg gaaacatggt agcc 24

<210> 203
 <211> 63
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 203
 acgtagtttc ggcctttcgg cctcatcagc gtgcagtggg gggacatcaa gcagccatgc 60
 aaa 63

<210> 204
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 nucleotide motif

<220>
 <221> modified_base
 <222> (14)..(19)
 <223> a, c, g, t, unknown, or other

<400> 204
gcgtttcgat tccnnnnnn

19

<210> 205
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide motif

<220>
<221> modified_base
<222> (1)..(6)
<223> a, c, g, u, unknown, or other

<400> 205
nnnnnnnggaa ucgaaacgc

19

<210> 206
<211> 32
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
probe

<220>
<221> modified_base
<222> (24)
<223> Pyridin-4-one

<400> 206
gcgucuagcg gaaacgcuac ugangagauu cc

32

<210> 207
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 207
gggagcagct atggaaaygt taaaaga

27

<210> 208
<211> 13
<212> RNA
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
 <221> modified_base
 <222> (1)..(5)
 <223> a, c, g, u, unknown, or other

<220>
 <221> modified_base
 <222> (10)..(13)
 <223> a, c, g, u, unknown, or other

<220>
 <223> See specification as filed for detailed description
 of preferred embodiments

<400> 208
 nnnnnngaaan nnn

13

<210> 209
 <211> 17
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
 <221> modified_base
 <222> (1)..(5)
 <223> a, c, g, u, unknown, or other

<220>
 <221> modified_base
 <222> (10)
 <223> a, c, g, u, unknown, or other

<220>
 <221> modified_base
 <222> (13)..(17)
 <223> a, c, g, u, unknown, or other

<220>
 <223> See specification as filed for detailed description
 of preferred embodiments

<400> 209
 nnnnncugan gannnnn

17

<210> 210
 <211> 32
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
 <221> modified_base
 <222> (1)..(4)
 <223> a, c, g, u, unknown, or other

<220>
 <221> modified_base
 <222> (7)..(20)
 <223> a, c, g, u, unknown, or other

<220>
 <221> modified_base
 <222> (25)
 <223> a, c, g, u, unknown, or other

<220>
 <221> modified_base
 <222> (28)..(32)
 <223> a, c, g, u, unknown, or other

<400> 210
 nnnnucnnnn nnnnnnnnnn cugangannn nn

32

<210> 211
 <211> 32
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
 <221> modified_base
 <222> (1)..(4)
 <223> a, c, g, u, unknown, or other

<220>
 <221> modified_base
 <222> (25)
 <223> a, c, g, u, unknown, or other

<220>
 <221> modified_base
 <222> (28)..(32)
 <223> a, c, g, u, unknown, or other

<220>
 <223> See specification as filed for detailed description
 of preferred embodiments

<400> 211
nnnnucuga cgcaagucga cugangan nn

32

<210> 212
<211> 32
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (1)..(4)
<223> a, c, g, u, unknown, or other

<220>
<221> modified_base
<222> (25)
<223> Pyridin-4-one

<220>
<221> modified_base
<222> (28)..(32)
<223> a, c, g, u, unknown, or other

<220>
<223> See specification as filed for detailed description
of preferred embodiments

<400> 212
nnnnucuagc ggaaacgcua cugangan nn

32

<210> 213
<211> 28
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (1)..(5)
<223> a, c, g, u, unknown, or other

<220>
<221> modified_base
<222> (10)..(21)
<223> a, c, g, u, unknown, or other

<220>
 <221> modified_base
 <222> (24)..(28)
 <223> a, c, g, u, unknown, or other

<400> 213
 nnnnngaaan nnnnnnnnnn nucnnnnn

28

<210> 214
 <211> 28
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
 <221> modified_base
 <222> (1)..(5)
 <223> a, c, g, u, unknown, or other

<220>
 <221> modified_base
 <222> (24)..(28)
 <223> a, c, g, u, unknown, or other

<400> 214
 nnnnngaaac ucaaaaauga gucnnnnn

28

<210> 215
 <211> 13
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<220>
 <221> modified_base
 <222> (1)..(4)
 <223> a, c, g, t, unknown, or other

<220>
 <221> modified_base
 <222> (9)..(13)
 <223> a, c, g, t, unknown, or other

<400> 215
 nnnntttcnn nnn

13

<210> 216
 <211> 13
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
 <221> modified_base
 <222> (1)..(4)
 <223> a, c, g, u, unknown, or other

<220>
 <221> modified_base
 <222> (9)..(13)
 <223> a, c, g, u, unknown, or other

<400> 216
 nnnngaaann nnn

13

<210> 217
 <211> 12
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<220>
 <221> modified_base
 <222> (1)..(4)
 <223> a, c, g, t, unknown, or other

<220>
 <221> modified_base
 <222> (9)..(12)
 <223> a, c, g, t, unknown, or other

<400> 217
 nnnntttcnn nn

12

<210> 218
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
 <221> modified_base
 <222> (1)..(6)
 <223> a, c, g, t, unknown, or other

<220>
 <221> modified_base
 <222> (21)..(27)
 <223> a, c, g, t, unknown, or other

<400> 218
 nnnnnntccg agccggwcgr nnnnnnn

27

<210> 219
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
 <221> modified_base
 <222> (1)..(6)
 <223> a, c, g, t, unknown, or other

<220>
 <221> modified_base
 <222> (23)..(29)
 <223> a, c, g, t, unknown, or other

<400> 219
 nnnnnnrggc tagchacaac gannnnnnn

29

<210> 220
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
 <221> modified_base
 <222> (1)..(6)
 <223> a, c, g, t, unknown, or other

<400> 220
 nnnnnntccg agccggac

18

<210> 221
 <211> 17
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
 <221> modified_base
 <222> (1)..(5)
 <223> a, c, g, t, unknown, or other

<220>
 <221> modified_base
 <222> (10)..(17)
 <223> a, c, g, t, unknown, or other

<400> 221
 nnnnntcgtn nnnnnnn

17

<210> 222
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
 <221> modified_base
 <222> (1)..(6)
 <223> a, c, g, t, unknown, or other

<220>
 <221> modified_base
 <222> (21)..(25)
 <223> a, c, g, t, unknown, or other

<400> 222
 nnnnnntccg agccggacga nnnnn

25

<210> 223
 <211> 40
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 probe

<220>

<221> modified_base

<222> (29)

<223> Pyridin-4-one

<400> 223

uuuuaacruc uagcggaaac gcuacugang acauagcugc